

White EVA-S201W: Solution of increasing PV module's power efficiency.
白色EVA-S201W 提升组件功率封装解决方案

S201W产品介绍

S201W 是专门为组件提升功率而设计开发的，做为组件层压时下层（电池背面）胶膜使用，可提升60片组件功率1.5--3.5瓦。

S201W 产品特点

1. 白色胶膜反射率高，明显提升组件效率。
2. 胶膜粗糙表面增加漫发射，提升组件效率。
3. 采用预交联工艺，白色EVA层压无翻层、无溢白、无气泡、无并片及串间距变化。
4. 抗湿热老化及紫外老化能力强。
5. 优异的材料兼容性，与焊带及汇流带、电池片、背板等材料有良好的粘结性。
6. 层压简便，层压时间短，可使用单腔层压机层压。

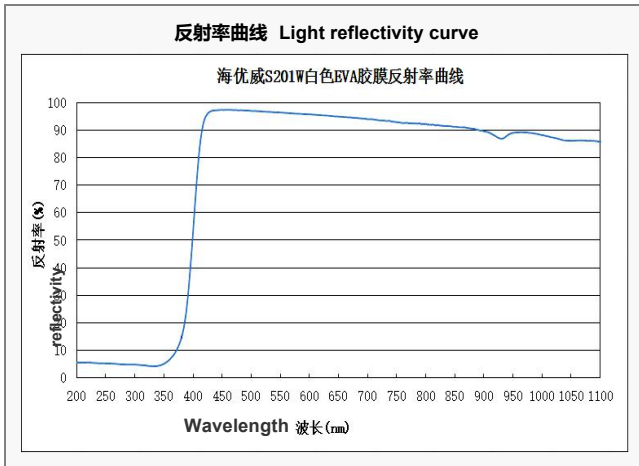
S201W Introduction

HIUV white EVA-S201W, designing for increasing PV module power efficiency as bottom layer EVA. Can increase 1.5w-3.5w per PV module(60cells).

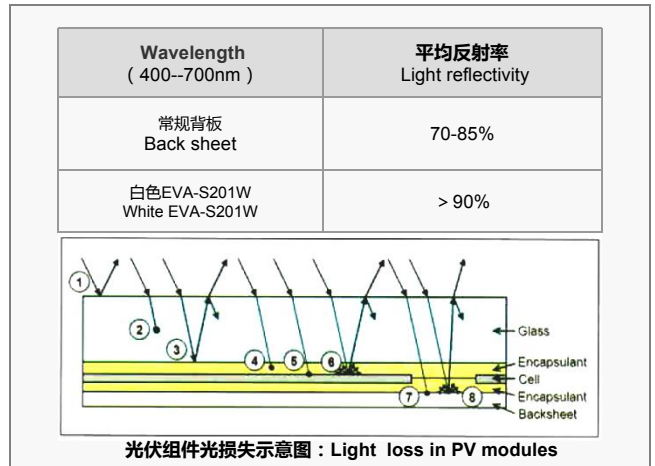
S201W Characteristics

1. White EVA increase PV module power efficiency markedly.
2. S201W's rough surface increase light diffuse reflection and PV module power efficiency
3. Pre-cross linking white EVA: No white color overflow, no bubble, no cell string moving
4. Excellent durability, with good performance in DH & UV aging.
5. Outstanding material compatibility. Strong adhesive ability with welding belt, cell, back sheets.
6. Shorten laminating time, can be used in single chamber laminator.

S201W 产品反射率 products light reflectivity



提升组件电池下表面材质反射率，可增加组件功率

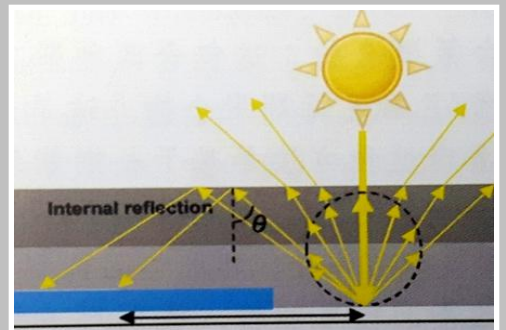


S201W 拥有粗糙表面，漫反射强度高，有利于组件功率提升
S201W's light diffuse reflection ability increase PV module power efficiency

**背板表面
Back sheet surface**



**S201W表面
S201W surface**



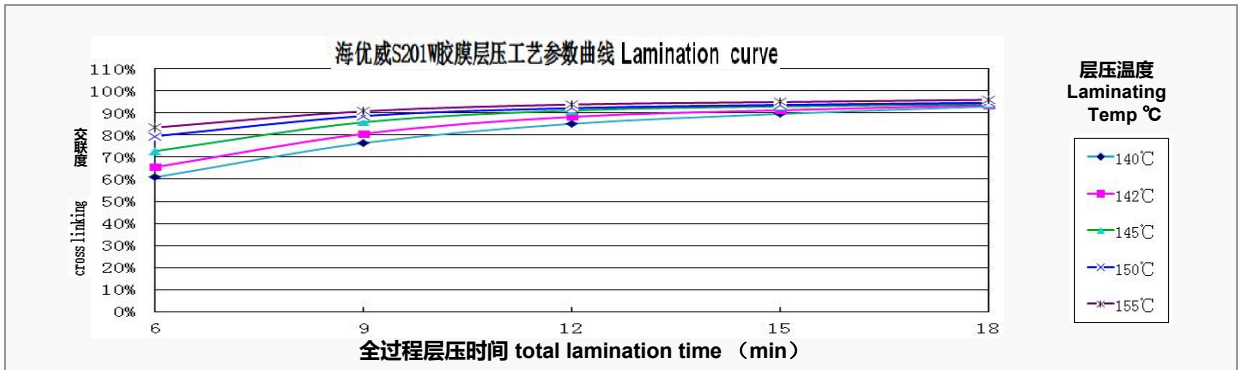
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S201W 采用预交联工艺, 层压成品率高, 无白色翻层, 无气泡, 无并片
Pre-cross linking white EVA: No white overflow, no bubble, no cell string moving .



S201W 建议层压工艺参数 (可缩短层压时间) Recommend lamination parameters.

Temp 140-155 C°, vacuuming 4-6 minutes, increasing and keeping pressure 10-14 minutes, can save lamination time 2-4mins.



S201W 性能参数 Property

性能 Property	单位Unit	测试方法 Test Method	S201W
宽度Width	mm	HIUV method	970-1150
厚度Thickness	mm		0.50±0.10
反光率 Light reflectivity (400-700nm)	%		> 90
VA含量 VA content	%	TGA	28.5±2
交联度 Gel content (142°C, 18min)	Gel%	二甲苯法 Xylen method	> 75
收缩率 Shrinkage Rate (120°C, 3min)	%	HIUV method	MD≤4.0
			TD≤1.5
与TPE背板剥离强度 Peeling Strength With TPE	N/cm		> 50
体积电阻率 Volume Insulating Resistance	Ω.cm	GB/T1410-2006	> 1*10 ¹⁴
耐紫外黄变 UV Light Resistance (120kWh/ m2)	ΔYI	ASTM G154	< 5.0
耐湿热黄变 Heat/Humidity Resistance (80°C, 85%RH, 1000hr)	ΔYI	ASTM E313	< 5.0